

**Use Information:** This paragraph is informational only and is not exclusively definitive of the end use. For use in laser printers, high speed, plain paper copiers and xerographic equipment as specified.

**Stock:** Groundwood pulp, not to exceed 1%.  
*Note: Not less than 30% postconsumer fiber. Any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.*

**Moisture content:** Average (percent) ..... 4.5  
A tolerance of  $\pm 0.5$  percentage point shall be allowed.

**Basis weight:** 17 by 22 inches,  
500 sheets (pounds) ..... 20  
A tolerance of  $\pm 5\%$  shall be allowed.

**Stiffness:** Average each direction not less than  
(Machine direction, Gurley milligrams) ..... 135  
(Cross direction, Gurley milligrams) ..... 60  
**OR**  
(Machine direction, Taber units) ..... 1.9  
(Cross direction, Taber units) ..... 0.9  
*Note: Any deviation in this requirement is sufficient cause for rejection of the paper.*

**Tearing strength:** Average each direction not less than (grams) ..... 36

**Opacity:** Average, not less than (percent) .... 86  
No individual specimen shall average less than (percent) ..... 84

**Smoothness:** Average each side  
(Sheffield units) ..... 190 to 130  
*Note: Any deviation in this requirement is sufficient cause for rejection of the paper.*

**Ruling and writing quality:** Lines ruled and characters written with ball point and felt tip pens shall be clear cut and free from excessive feathering.

**Curl:** Paper shall lie flat before and after processing through a high-speed copier or laser printer with either no tendency to curl or with a curl which can be overcome under reasonable working conditions.

#### OPTION

**Alkaline paper.** This option is for products requiring above average permanence. Add / replace with the following properties.

**Stock:** 100% bleached chemical woodpulp.  
*Note: Not less than 30% postconsumer fiber. Any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.*

**Testing:** Shall be conducted in accordance with methods in part 2, *Government Paper Specification Standards*. The precision requirements of the acceptance criteria (Part 4) shall apply except as noted in the standard.

**Surface:** Shall be free from lint, fuzz, wrinkles, waviness, folds, holes, tears, and other detrimental defects.

**Size and trim:** Sheets: Paper shall be furnished in the size(s) ordered and shall be flat, trimmed square on four sides with clean smooth edges, and evenly jogged. A tolerance of 1/32 inch shall be allowed for sheets 8-1/2 by 14 inches or less. Successive sheets within any package shall not differ from each other by more than 1/32 inch. Paper shall be considered squared if the variation does not exceed 1/32 inch.

**General appearance:** Paper shall conform to the standard sample(s) established by the Government.

**Brightness:** The white paper shall have a target brightness not less than 82% or as specified.

**Color:** The paper in the order (or publication) shall be uniform and the color variation shall not exceed DE(CIELAB) = 1.0.

For colored stock, the commercial color for the shade shall applied except when specified that an exact match to one of the established color standards in Part 3 is required or to match a color sample supplied by the ordering agency. Colors shall not fade or transfer (rub off) and shall appear even and uniform on the surface of the sheet. The sheet shall not be 2-sided.

**Formation:** Shall be uniform.

**Cleanliness:** The dirt count for each side of the paper shall not exceed 250 specks per square meter. No sample sheet (600 to 650 cm<sup>2</sup> in size) shall contain more than one defect with equivalent area of 0.25 mm<sup>2</sup> or greater.

**Performance:** Shipments of any qualified product shall perform satisfactorily on laser printer and high speed xerographic equipment. There shall not be more than one paper caused jam or one document with unacceptable image quality due to the paper per 5,000 continuous-copy run at atmospheric conditions of 21  $\pm 5.5$  °C and 50  $\pm 20\%$  relative humidity.

**Acidity:** pH value by cold extraction shall be not less than 7.0. The paper shall contain not less than 2% calcium carbonate.

*Note: Any deviation in this requirement is sufficient cause for rejection of the paper.*